METEOROLOGICAL SERVICE.

DOMINION OF CANADA.

TABLES.

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CONTENTS.

	Page.
Psychrometrical Tables.	
Table giving in English inches of mercury the Elastic Force of Vapour contained in the Air, and its Relative Humidity in Hundredths	1—12
Proportional parts for tenths of a degree of the Wet Bulb Thermometer, and of the Depression of the reading of the Wet Bulb Thermometer below that of the Dry Bulb, to be employed with the Psychrometrical Tables in finding the Pressure of Vapour	13, 14
Table giving the Relative Humidity in Hundredths for every degree of Temperature (t′) of the Wet Bulb, from −31° to +31° Fahrenheit, and for every *tenth* of a degree of difference (t—t′) between the Temperature (t) of the Air and the Temperature (t′) of the Wet Bulb	15—26
Barometric Tables.	
Tables of Corrections to be applied to the Readings of Barometers with Brass Scales extending from the Cistern to the top of the Mercurial Column, for reducing the Observations to 32° Fahrenheit.	
No. 1.—For Temperatures from 0° to 28° corrections *additive*	27
No. 2.—For Temperatures from 29° to 100° corrections *subtractive*	28, 29

INTRODUCTORY REMARKS.

PSYCHROMETRICAL TABLES.

The first of the following tables gives, in English inches of mercury, the elastic force or pressure of vapour contained in the air, and its relative humidity, derived from the indications of the dry and wet thermometers in degrees Fahrenheit.

This table is reprinted from that of Professor Guyot, published in the Smithsonian Collection of Meteorological and Physical Tables, 1859; the columns corresponding to the half degrees of difference being omitted, as they are rendered unnecessary by auxiliary tables which have been supplied.

The pressures of vapour are obtained from the following formulæ, where

x represents the force of vapour in the air at the time of observation;
t the temperature of the air in degrees Fahrenheit;
t' . . . . . evaporation given by the wet bulb;
f the force of vapour in saturated air at temperature t';

$$x = f - \frac{14.256\,(t - t')}{1130 - t'}$$ where t' is above the freezing point;

$$x = f - \frac{14.256\,(t - t')}{1272 - t'}$$ where t' is below the freezing point.

The mean barometric pressure for which the table is computed is 29.7 inches.

The pressures of vapour corresponding to intermediate tenths of a degree of the wet bulb thermometer, and tenths of a degree of the difference between the dry and wet bulb thermometers, are obtained by means of the auxiliary Tables I. and II. of proportional parts on pages 13, 14, where instructions for their use are given.

Examples in the use of Tables I. and II. of proportional parts, pp. 13, 14:

Ex. 1.—Given $t' = 78°.3$, $t - t' = 9.7$:

For $t' = 78°$ and $t - t' = 9°$	Force of vapour	= 0.836	(p. 7.)
for .3 of t'	cor. on Table I., p. 14	= +.010	
for .7 of $t - t'$	cor. on Table II., p. 14	= −.009	

Force of vapour required = 0.837.

Ex. 2.—Given $t' = -15°.8$, $t - t' = 1.4$:

For $t' = -15°$ and $t - t' = 1$	Force of vapour	= 0.010	(p. 2.)
for .8 of t'	cor. on Table I., p. 13	= +.001	
for .4 of $t - t'$	cor. on Table II., p. 13	= −.004	

Force of vapour required = 0.005.

The relative humidity corresponding to intermediate values of t' and of $t-t'$, for high temperatures, may be found with sufficient accuracy by proportion; but as the humidity, except for very small changes of $t-t'$, does not vary as $t-t'$ when the temperature is very low, a table has been printed herewith giving the humidities for all values of t' from $-31°$ to $+31°$, and for every tenth of a degree of $t-t'$.

For values of t' below zero the computation was made directly from the formula; but for values above zero the humidities were first computed at intervals of one degree of $t-t'$, and the intermediate values were thence deduced by interpolating with second and, when necessary, with third differences.

The humidities in the separate table differ slightly in some cases from those given with the pressures of vapour; the disagreement, however, is less than that which would occur through unavoidable errors of observation.

The latter were deduced by Professor Guyot from tables taken by him from Regnault's "Rélation des Expériences, &c.," published in the "Memoires de l'Institut de France," Tome XXI. The pressures below —10° centigrade, however, were not copied by him exactly, but were modified by the subtraction of a constant quantity from all of them, in order to make the pressure at —10° agree with another table by Regnault in the same volume extending only as low as —10°, and from which the pressures for the higher temperatures were taken. But as Regnault gives a full account of the manner in which the table extending to —32° centigrade was obtained, and none of the other, it is probable that the table with the low range is the more accurate of the two, and has therefore been adopted in computing the separate humidity table.

The pressures (π) on which the separate humidity table is based were calculated from the formula:

$$\pi = a + b\alpha^x$$

where $x = t + 32°$ centigrade.

The values of the constants are deduced from the following values of π:

	m.m.
$t_0 = 32°$	$\pi_0 = 0.32$
$t_1 = 16$	$\pi_1 = 1.29$
$t_2 = 0$	$\pi_2 = 4.60$

The constants, when converted into English measure, and making $x = t + 31°$ Fahrenheit, are as follows:

$$\log b = \bar{1}.6043274$$
$$\log a = 0.0333160$$
$$a = -0.082038$$

The humidities in the table containing the pressures of vapour are given to fractions of a hundredth to facilitate interpolation; but this is unnecessary in the separate humidity table, where the humidities are computed to every tenth of $t-t'$.

BAROMETRIC TABLES.

Tables giving Corrections to be applied to the Readings of Barometers with Brass Scales extending from the Cistern to the top of the Mercurial Column, for reducing the Observations to 32° Fahrenheit:

The pressure of the air is proportional to the *true* height of the mercurial column of a barometer, provided that the mercury has a temperature 32°, and the true height is identical with the apparent height, *i.e.*, that indicated by the brass scale, when the latter has a temperature 62°.

The joint correction rendered necessary by differences of the temperature of the mercury from 32°, and of the temperature of the brass scale from 62°, corresponding to temperature (t) of the attached thermometer, and to apparent height (h) of the mercurial column in inches, is given in a table computed from the following formula:

where m = cubic expansion of mercury for 1° Fahrenheit = .0001001
s = linear expansion of brass . . . . . = .0000104344

$$\text{joint correction} = -h\,\frac{m\,(t-32)-s\,(t-62)}{1+m\,(t-32)}$$

It may be easily seen from the formula that the joint correction becomes (0) when (t) is 28°.5 nearly, and that it is additive or subtractive according as (t) is below or above 28°.5.

The corrections corresponding to full degrees of the temperature shewn by the attached thermometer from 0 to 28°, contained in the first part of the table, are all *additive*, while the corrections for temperatures at and above 29° are *subtractive*.

The correction corresponding to the temperature shewn by the attached thermometer is found in the same horizontal line with that temperature at the side of the table, and in the column the heading of which is nearest in amount to the reading of the barometer after it has been corrected for index errors, &c.

Examples:

For temperature 40° and Barometer 29.526 the correction is −.030
" " 16 " 30.124 " +.034

When the change in the correction corresponding to consecutive half inches of the barometer exceeds .001, which it often does at temperatures above 52°, it is sometimes necessary to use a correction intermediate to those in consecutive columns. Thus for barometer 29.725 and temperature 71° the correction is —.113, the corrections corresponding to 29.5 and 30° being —.112 and —.114.

When the reading of the attached thermometer is taken to tenths, the correction may be obtained in a similar manner; thus, if the barometric reading be 30.010, and the attached thermometer be 60°.3, the correction is —.086.

PSYCHROMETRICAL TABLES.

Temperature, Fahrenheit. Force of Vapour in English Inches Relative Humidity in Hundredths

Wet Bulb Thermometer t'	Mean Vertical Difference of Force of Vapour for 0°.1	t − t', or Difference of Dry and Wet Thermometers. t', below the Freezing Point, Bulb covered with a film of Ice. 0° Force of Vapour.	0° Relative Humidity.	1° Force of Vapour	1° Relative Humidity.	2° Force of Vapour	2° Relative Humidity.	Wet Bulb Thermometer t	Mean Vertical Difference of Force of Vapour for 0°.1	0° Force of Vapour	0° Relative Humidity.	1° Force of Vapour.	1° Relative Humidity.	2° Force of Vapour	2° Relative Humidity.
		Inches.		Inches.		Inches.				Inches		Inches		Inches	
−31°	0.00005	0.009	100					0°	0°0002	0.043	100	0.032	70.7	0.021	43.8
−30	6	0.009	100					1	2	0.045	100	0.034	71 8	0.023	46.0
−29	6	0.010	100					2	2	0.047	100	0.036	73.0	0.025	48.0
−28	6	0.010	100					3	2	0.050	100	0.038	74.0	0.027	50.0
−27	6	0.010	100					4	2	0.052	100	0.041	75.0	0.030	52.0
−26	7	0.012	100					5	2	0.055	100	0.043	76.0	0.032	53 8
−25	7	0.012	100					6	3	0.057	100	0.046	76.9	0.034	55.3
−24	8	0.013	100					7	3	0.059	100	0.048	77.7	0.037	56.8
−23	8	0.014	100					8	3	0.062	100	0.051	78.4	0.040	58.2
−22	8	0.015	100					9	3	0.065	100	0.054	79.1	0.043	59.6
−21	8	0.015	100	0.004	26.9			10	3	0.068	100	0.057	79.7	0.046	61.0
−20	8	0.016	100	0.005	30.3			11	3	0.071	100	0.061	80.4	0.049	62.3
−19	9	0.017	100	0.006	33.5			12	3	0.075	100	0.063	81.0	0.052	63.5
−18	0.0001	0.018	100	0.007	36.6			13	4	0.078	100	0.067	81.6	0.056	64.8
−17	1	0.019	100	0.008	39.5			14	4	0.082	100	0.071	82.3	0.059	65.9
−16	1	0.020	100	0.009	42.3			15	4	0.086	100	0.074	82.9	0.063	67.1
−15	1	0.021	100	0.010	44.9			16	4	0.090	100	0.078	83.4	0.067	68.2
−14	1	0.022	100	0.011	47.4			17	4	0.094	100	0.083	84.0	0.071	69.2
−13	1	0.023	100	0.012	49.8			18	5	0.098	100	0.087	84.5	0.076	70.2
−12	1	0.024	100	0.013	51.9			19	5	0.103	100	0.092	85.0	0.080	71.2
−11	1	0.026	100	0.014	53.9			20	5	0.108	100	0.096	85.5	0.085	72.1
−10	1	0.027	100	0.016	55.7	0.005	15.6	21	5	0.113	100	0.101	86.0	0.090	73.0
− 9	1	0.028	100	0.017	57.7	0.006	19.1	22	5	0.118	100	0.107	86.4	0.095	73.8
− 8	1	0.030	100	0.018	59.4	0.007	22.5	23	6	0.123	100	0.112	86.8	0.100	74.6
− 7	1	0.031	100	0.020	61.1	0.009	25.7	24	6	0.129	100	0.117	87.2	0.106	75.4
− 6	2	0.033	100	0.021	62.7	0.010	28.4	25	6	0.135	100	0.123	87.6	0.112	76.1
− 5	2	0.034	100	0.023	64.5	0.012	31.7	26	6	0.141	100	0.129	88.0	0.117	76.8
− 4	2	0.036	100	0.025	65.8	0.014	34.5	27	6	0.147	100	0.136	88.3	0.124	77.5
− 3	2	0.038	100	0.026	67.1	0.015	36.9	28	7	0.153	100	0.142	88.7	0.130	78.2
− 2	2	0.039	100	0.028	68.3	0.017	39.3	29	7	0.160	100	0.149	89.0	0.137	78.8
− 1	2	0.041	100	0.030	69.5	0.019	41.6	30	7	0.167	100	0.155	89.3	0.144	79.4
0		0.043	100	0.032	70.7	0.021	43.8	31		0.174	100	0.162	89.6	0.151	80.0

Mean Horizontal Difference of Force of Vapour for 0°.1 = 0.0011.

Temperature, Fahrenheit. Force of Vapour in English Inches. Relative Humidity in Hundredths.

t—t', or Difference of Dry and Wet Thermometers.
t', below the Freezing Point, the Bulb covered with a film of ice.

Wet Bulb Thermometer t'	Mean Vertical Difference of Force of Vapour for 0°.1.	3°		4°		5°		Wet Bulb Thermometer t'	Mean Vertical Difference of Force of Vapour for 0°.1.	6°		7°		8°	
		Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.			Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.
		Inches.		Inches.		Inches.				Inches.		Inches.		Inches.	
0°	0.0002	0.010	19.3					12°	0.0003	0.007	6.8				
1	2	0.012	22.3					13	4	0.010	9.9				
2	2	0.014	25.3					14	4	0.014	12.8				
3	2	0.016	28.1					15	4	0.018	15.7	0.006	5.4		
4	2	0.018	30.8	0.007	11.4			16	4	0.022	18.4	0.010	8.4		
5	2	0.021	33.4	0.010	14.6			17	4	0.026	21.0	0.015	11.3		
6	2	0.023	35.6	0.012	17 5			18	5	0.030	23.5	0.019	14.0	0.008	5.3
7	2	0.026	37.7	0.014	20.2			19	5	0.035	25.8	0.023	16.6	0.012	8.2
8	3	0.028	39.8	0.017	22.9			20	5	0.040	28.1	0.028	19.0	0.017	11.0
9	3	0.031	41.8	0.020	25.5	0.009	10.6	21	5	0.044	30.3	0.033	21.5	0.022	13.5
10	3	0.034	43.8	0.023	28.0	0.012	13.6	22	5	0.050	32.3	0.038	23.8	0.027	16.0
11	3	0.037	45.7	0.026	30.4	0.014	16.4	23	5	0.055	34.2	0.043	26.0	0.032	18.4
12	3	0.041	47.5	0.029	32.7	0.018	19.2	24	6	0.060	36.1	0.049	28.1	0.038	20.7
13	4	0.044	49.2	0.033	35.0	0.022	21.9	25	6	0.066	38.0	0.055	30.2	0.043	23.0
14	4	0.048	50.9	0.037	37.1	0.025	24.5	26	6	0.072	39.8	0.061	32.2	0.049	25.1
15	4	0.052	52.5	0.040	39.2	0.029	26.9	27	6	0.078	41.5	0.067	34.0	0.055	27.2
16	4	0.056	54.1	0.044	41.2	0.033	29.3	28	7	0.085	43.2	0.073	35.9	0.062	29.1
17	4	0.060	55.6	0.049	43.1	0.037	31.6	29	7	0.091	44.8	0.080	37.6	0.068	31.0
18	4	0.065	57.0	0.053	44.9	0.042	33.7	30	7	0.098	46.2	0.086	39.2	0.075	32.8
19	5	0.069	58.4	0.058	46.7	0.046	35.8	31		0.105	47.6	0.093	40.8	0.082	34.4
20	5	0.074	59.8	0.062	48.3	0.050	37.8			9°		10°		11°	
21	5	0.079	61.0	0.067	50.0	0.056	39.7			Inches.		Inches.		Inches.	
22	5	0.084	62.2	0.072	51.5	0.061	41.5	20	0.0005	0.005	3.4				
23	5	0.089	63.4	0.078	52.9	0.066	43.3	21	5	0.010	6.1				
24	6	0.095	64.4	0.083	54.3	0.072	44.9	22	5	0.015	8.8	0.004	2.2		
25	6	0.100	65.5	0.089	55.6	0.078	46.5	23	5	0.021	11.4	0.009	4.9		
26	6	0.106	66.5	0.095	56.9	0.083	48.0	24	6	0.026	13.9	0.015	7.5		
27	6	0.113	67.5	0.101	58.2	0.090	49.6	25	6	0.032	16.2	0.020	10.0	0.009	4.2
28	6	0.119	68.5	0.108	59.4	0.096	51.0	26	6	0.038	18.5	0.026	12.4	0.015	6.8
29	7	0.126	69.4	0.114	60.6	0.103	52.4	27	6	0.044	20.7	0.032	14.7	0.021	9.2
30	7	0.132	70.3	0.121	61.7	0.109	53.7	28	7	0.050	22.8	0.039	16.9	0.027	11.5
31	7	0.139	71.2	0.128	62.8	0.116	55.0	29	7	0.057	24.9	0.045	19.0	0.034	13.7
								30	7	0.064	26.7	0.052	21.0	0.041	15.8
								31	7	0.071	28.5	0.059	22.9	0.048	17.8

Mean Horizontal Difference of Force of Vapour for 0°.1 = 0.0011.

Temperature, Fahrenheit. Force of Vapour in English Inches. Relative Humidity in Hundredths.

Wet Bulb Thermometer t'	Mean Vertical Difference of Force of Vapour for 0°.1	t − t', or Difference of Dry and Wet Thermometers.												Wet Bulb Thermometer t'
		0°		1°		2°		3°		4°		5°		
		Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	
		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.		
32°		0.181	100	0.168	89.3	0.155	79.2	0.142	69.8	0.129	61.0	0.116	52.7	32°
33	0.0007	0.188	100	0.175	89.5	0.162	79.7	0.149	70.5	0.136	61.9	0.123	53.7	33
34	08	0.196	100	0.183	89.8	0.170	80.2	0.157	71.2	0.144	62.8	0.131	54.7	34
35	08	0.204	100	0.191	90.0	0.178	80.7	0.165	71.9	0.152	63.6	0.139	55.7	35
36	08	0.212	100	0.199	90.3	0.186	81.1	0.173	72.6	0.160	64.5	0.147	56.7	36
37	09	0.220	100	0.207	90.5	0.194	81.6	0.181	73.2	0.168	65.3	0.155	57.7	37
38	09	0.229	100	0.216	90.7	0.203	82.0	0.190	73.8	0.177	66.1	0.164	58.7	38
39	09	0.238	100	0.225	91.0	0.212	82.4	0 199	74.4	0.186	66.9	0.173	59.7	39
40	09	0.248	100	0.235	91.2	0.221	82.9	0.208	75.0	0.195	67.7	0.182	60.7	40
41	10	0.257	100	0.244	91.4	0.231	83.3	0.218	75.6	0.205	68.4	0.192	61.7	41
42	10	0.267	100	0.254	91.6	0.241	83.6	0.228	76.2	0.215	69.1	0.202	62.4	42
43	10	0.278	100	0.264	91.8	0.251	84.0	0.238	76.7	0.225	69.8	0.212	63.1	43
44	11	0.288	100	0.275	92.0	0.262	84.3	0.249	77.2	0.236	70.4	0.223	63.8	44
45	11	0.299	100	0.286	92.1	0.273	84.7	0.260	77.7	0.247	71.0	0.234	64.6	45
46	11	0.311	100	0.297	92.3	0.284	85.0	0.271	78.1	0.258	71.6	0.245	65.3	46
47	12	0.323	100	0.310	92.5	0.297	85.3	0.283	78.6	0.270	72.2	0.257	66.0	47
48	12	0.335	100	0.322	92.6	0.309	85.6	0.296	79.0	0.282	72.7	0.269	66.7	48
49	13	0.348	100	0.335	92.7	0.321	85.9	0.308	79.4	0.295	73.3	0.282	67.4	49
50	13	0.361	100	0.348	92.9	0.334	86.1	0.321	79.8	0.308	73.8	2.295	68.1	50
51	13	0.374	100	0.361	93.0	0.348	86.4	0.335	80.2	0.321	74.3	0.308	68.7	51
52	14	0.388	100	0.375	93.2	0.362	86.7	0.349	80.5	0.335	74.7	0.322	69.2	52
53	14	0.403	100	0.389	93.3	0.376	86.9	0.363	80.9	0.350	75.2	0.336	69.8	53
54	15	0.418	100	0.404	93.4	0.391	87.2	0.378	81.2	0.365	75.6	0.351	70.3	54
55	15	0.433	100	0.420	93.5	0.407	87.4	0.393	81.6	0.380	76.1	0.367	70.8	55
56	16	0.449	100	0.436	93.6	0.422	87.6	0.409	81.9	0.396	76.5	0.383	71.3	56
57	16	0.466	100	0.452	93.7	0.439	87.8	0.426	82.2	0.412	76.9	0.399	71.8	57
58	17	0.482	100	0.469	93.9	0.456	88.0	0.443	82.5	0.429	77.2	0.416	72.3	58
59	17	0.500	100	0.487	94.0	0.473	88.2	0.460	82.8	0.447	77.6	0.433	72.7	59
60	18	0.518	100	0.505	94.1	0.491	88.4	0.478	83.1	0.465	78.0	0.451	73.1	60
61	19	0.537	100	0.523	94.2	0.510	88.6	0.497	83.3	0.483	78.3	0.470	73.5	61
62	19	0.556	100	0.542	94.2	0.529	88.8	0.516	83.6	0.502	78.6	0.489	74.0	62
63	20	0.576	100	0.562	94.3	0.549	89.0	0.536	83.8	0.522	79.0	0.509	74.3	63
64	20	0.596	100	0.583	94.4	0.569	89.1	0.556	84.1	0.543	79.3	0.529	74.7	64
65	21	0.617	100	0.604	94.5	0.591	89.3	0.577	84.3	0.564	79.6	0.550	75.1	65
66	22	0.639	100	0.626	94.6	0.612	89.5	0.599	84.6	0.586	79.9	0.572	75.4	66
67	23	0.662	100	0.648	94.7	0.635	89.6	0.622	84.8	0.608	80.2	0.595	75.8	67

Mean Horizontal Difference of Force of Vapour for 0°.1 = 0.0013.

Temperature, Fahrenheit. Force of Vapour in English Inches. Relative Humidity in Hundredths.

Wet Bulb Thermometer t'	Mean Vertical Difference of Force of Vapour for 0°.1.	t−t', or Difference of Dry and Wet Thermometers.												Wet Bulb Thermometer t'
		0°		1°		2°		3°		4°		5°		
		Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	
		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.		
68°		0.685	100	0.671	94.7	0.658	89.8	0.644	85.0	0.631	80.4	0.618	76.1	68°
69	0.0023	0.708	100	0.695	94.8	0.682	89.9	0.668	85.2	0.655	80.7	0.641	76.4	69
70	24	0.733	100	0.720	94.9	0.706	90.0	0.693	85.4	0.679	81.0	0.666	76.8	70
71	25	0.758	100	0.745	95.0	0.731	90.2	0.718	85.6	0.704	81.2	0.691	77.1	71
72	26	0.784	100	0.771	95.0	0.757	90.3	0.744	85.8	0.731	81.5	0.718	77.4	72
73	27	0.811	100	0.798	95.1	0.784	90.4	0.771	86.0	0.757	81.7	0.744	77.6	73
74	28	0.839	100	0.826	95.2	0.812	90.6	0.799	86.2	0.785	81.9	0.772	77.9	74
75	28	0.868	100	0.854	95.2	0.841	90.7	0.827	86.3	0.814	82.2	0.800	78.2	75
76	29	0.897	100	0.883	95.3	0.870	90.8	0.856	86.5	0.843	82.4	0.829	78.4	76
77	30	0.927	100	0.914	95.4	0.900	90.9	0.887	86.7	0.873	82.6	0.860	78.7	77
78	31	0.958	100	0.945	95.4	0.931	91.0	0.918	86.8	0.904	82.8	0.890	78.9	78
79	32	0.990	100	0.977	95.5	0.963	91.1	0.949	87.0	0.936	83.0	0.922	79.2	79
80	33	1.023	100	1.010	95.5	0.996	91.2	0.982	87.1	0.969	83.2	0.955	79.4	80
81	34	1.057	100	1.044	95.6	1.030	91.3	1.016	87.3	1.003	83.4	0.989	79.7	81
82	35	1.092	100	1.079	95.6	1.065	91.4	1.051	87.4	1.038	83.6	1.024	79.9	82
83	36	1.128	100	1.115	95.7	1.101	91.5	1.087	87.5	1.074	83.7	1.060	80.1	83
84	37	1.165	100	1.152	95.7	1.138	91.6	1.124	87.7	1.111	83.9	1.096	80.3	84
85	38	1.203	100	1.189	95.8	1.176	91.7	1.162	87.8	1.148	84.1	1.135	80.5	85
86	39	1.242	100	1.228	95.8	1.215	91.8	1.201	87.9	1.187	84.2	1.174	80.7	86
87	40	1.282	100	1.268	95.9	1.256	91.9	1.242	88.1	1.228	84.4	1.215	80.9	87
88	41	1.323	100	1.310	95.9	1.296	92.0	1.282	88.2	1.269	84.6	1.255	81.1	88
89	42	1.366	100	1.352	95.9	1.339	92.0	1.325	88.3	1.311	84.7	1.297	81.3	89
90	44	1.410	100	1.396	96.0	1.382	92.1	1.369	88.4	1.355	84.9	1.341	81.4	90
91	45	1.455	100	1.441	96.0	1.427	92.2	1.413	88.5	1.400	85.0	1.386	81.6	91
92	46	1.501	100	1.487	96.1	1.473	92.3	1.460	88.6	1.446	85.1	1.432	81.8	92
93	48	1.548	100	1.535	96.1	1.521	92.4	1.507	88.7	1.493	85.3	1.480	82.0	93
94	49	1.597	100	1.583	96.1	1.569	92.4	1.556	88.8	1.542	85.4	1.528	82.1	94
95	50	1.647	100	1.633	96.2	1.619	92.5	1.606	88.9	1.592	85.5	1.578	82.3	95
96	51	1.698	100	1.684	96.2	1.670	92.6	1.657	89.0	1.643	85.7	1.629	82.4	96
97	53	1.751	100	1.739	96.2	1.723	92.6	1.709	89.1	1.696	85.8	1.682	82.6	97
98	54	1.805	100	1.791	96.3	1.777	92.7	1.764	89.2	1.750	85.9	1.736	82.7	98
99	56	1.861	100	1.847	96.3	1.833	92.8	1.819	89.3	1.805	86.0	1.792	82.9	99
100	57	1.918	100	1.904	96.3	1.890	92.8	1.876	89.4	1.863	86.2	1.849	83.0	100
101	59	1.977	100	1.963	96.4	1.949	92.9	1.935	89.5	1.921	86.3	1.907	83.2	101
102	60	2.037	100	2.023	96.4	2.009	92.9	1.995	89.6	1.981	86.4	1.967	83.3	102
103	62	2.098	100	2.085	96.4	2.071	93.0	2.057	89.7	2.043	86.5	2.029	83.4	103
104	63	2.162	100	2.148	96.5	2.134	93.1	2.120	89.8	2.106	86.6	2.092	83.5	104

Mean Horizontal Difference of Force of Vapour for 0°.1 = 0.0013.

Temperature, Fahrenheit. Force of Vapour in English Inches. Relative Humidity in Hundredths.

Wet Bulb Thermometer t'	Mean Vertical Difference of Force of Vapour for 0°.1.	t—t', or Difference of Dry and Wet Thermometers.												Wet Bulb Thermometer t
		6°		7°		8°		9°		10°		11°		
		Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour	Relative Humidity.	
		Inches.		Inches.		Inches.		Inches		Inches.		Inches		
32°		0.103	45.0	0.090	37.9	0.077	31.2	0.064	25.0	0.051	19.2	0.038	13.8	32°
33	0.0007	0.110	46.3	0.097	39.3	0.084	32.8	0.071	26.7	0.058	21.0	0.045	15.7	33
34	07	0.118	47.6	0.105	40.7	0.092	34.3	0.079	28.3	0.066	22.7	0.053	17.5	34
35	08	0.126	48.8	0.113	42.0	0.100	35.7	0.087	29.9	0.074	24.4	0.061	19.3	35
36	08	0.134	50.0	0.121	43.3	0.108	37.2	0.095	31.4	0.082	26.0	0.069	21.1	36
37	09	0.142	51.1	0.129	44.6	0.116	38.6	0.103	33.0	0.090	27.6	0.077	22.8	37
38	09	0.151	52.2	0.138	45.9	0.125	40.0	0.112	34.4	0.099	29.2	0.086	24.4	38
39	09	0.160	53.3	0.147	47.1	0.134	41.3	0.121	35.9	0.108	30.7	0.094	26.1	39
40	09	0.169	54.3	0.156	48.3	0.143	42.6	0.130	37.3	0.117	32.2	0.104	27.6	40
41	10	0.179	55.4	0.166	49.4	0.153	43.9	0.139	38.6	0.126	33.7	0.113	29.2	41
42	10	0.189	56.3	0.175	50.5	0.162	45.0	0.149	39.9	0.136	35.0	0.123	30.6	42
43	10	0.199	57.2	0.186	51.5	0.173	46.1	0.160	41.1	0.146	36.3	0.133	32.0	43
44	11	0.209	58.1	0.196	52.5	0.183	47.2	0.170	42.3	0.157	37.6	0.144	33.3	44
45	11	0.220	59.0	0.207	53.5	0.194	48.3	0.181	43.4	0.168	38.8	0.155	34.6	45
46	11	0.232	59.8	0.219	54.4	0.206	49.3	0.192	44.5	0.179	39.9	0.166	35.8	46
47	12	0.244	60.6	0.231	55.2	0.217	50.2	0.204	45.5	0.191	41.1	0.178	37.0	47
48	12	0.256	61.3	0.243	56.1	0.230	51.2	0.217	46.5	0.203	42.1	0.190	38.1	48
49	13	0.269	62.0	0.255	56.9	0.242	52.1	0.229	47.5	0.216	43.2	0.203	39.2	49
50	13	0.282	62.7	0.268	57.7	0.255	52.9	0.242	48.4	0.229	44.2	0.216	40.2	50
51	13	0.295	63.4	0.282	58.4	0.269	53.7	0.255	49.3	0.242	45.2	0.229	41.2	51
52	14	0.309	64.1	0.296	59.2	0.282	54.6	0.269	50.2	0.256	46.1	0.243	42.2	52
53	14	0.323	64.7	0.310	59.9	0.297	55.3	0.284	51.1	0.270	47.0	0.257	43.2	53
54	15	0.338	65.3	0.325	60.6	0.312	56.1	0.298	51.9	0.285	47.9	0.272	44.1	54
55	15	0.354	65.9	0.340	61.2	0.327	56.8	0.314	52.7	0.300	48.7	0.287	45.0	55
56	16	0.369	66.5	0.356	61.9	0.343	57.5	0.330	53.5	0.316	49.5	0.303	45.9	56
57	17	0.386	67.0	0.373	62.5	0.359	58.2	0.346	54.3	0.333	50.3	0.319	46.7	57
58	17	0.403	67.5	0.389	63.1	0.376	58.8	0.363	55.0	0.350	51.1	0.336	47.5	58
59	17	0.420	68.0	0.407	63.6	0.393	59.5	0.380	55.7	0.367	51.8	0.354	48.2	59
60	18	0.438	68.5	0.425	64.2	0.411	60.1	0.398	56.4	0.385	52.5	0.371	49.0	60
61	18	0.457	69.0	0.443	64.7	0.430	60.7	0.416	57.0	0.403	53.2	0.390	49.7	61
62	19	0.476	69.5	0.462	65.3	0.449	61.3	0.436	57.6	0.422	53.9	0.409	50.4	62
63	20	0.495	70.0	0.482	65.8	0.469	61.8	0.455	58.2	0.442	54.5	0.429	51.1	63
64	21	0.516	70.4	0.503	66.3	0.489	62.4	0.476	58.8	0.462	55.1	0.449	51.8	64
65	21	0.537	70.8	0.524	66.8	0.510	62.9	0.497	59.3	0.483	55.8	0.470	52.4	65
66	22	0.559	71.2	0.545	67.2	0.532	63.4	0.519	59.9	0.505	56.3	0.492	53.1	66
67	23	0.581	71.6	0.568	67.7	0.554	63.9	0.542	60.3	0.527	56.9	0.514	53.7	67

Mean Horizontal Difference of Force of Vapour for 0°.1 = 0.0013.

Temperature, Fahrenheit. Force of Vapour in English Inches. Relative Humidity in Hundredths.

Wet Bulb Thermometer t′	Mean Vertical Difference of Force of Vapour for 0°.1.	t−t′, or Difference of Dry and Wet Thermometers.												Wet Bulb Thermometer t′
		6°		7°		8°		9°		10°		11°		
		Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	
		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.		
68°		0.604	72.0	0.591	68.1	0.577	64.4	0.564	60.8	0.550	57.4	0.537	54.2	68°
69	0.0024	0.628	72.4	0.614	68.5	0.601	64.8	0.588	61.3	0.574	58.0	0.561	54.8	69
70	24	0.652	72.7	0.639	68.9	0.625	65.3	0.612	61.8	0.598	58.5	0.585	55.4	70
71	25	0.678	73.1	0.664	69.3	0.651	65.7	0.637	62.3	0.624	59.0	0.610	55.9	71
72	26	0.704	73.4	0.690	69.7	0.677	66.1	0.663	62.7	0.650	59.5	0.636	56.4	72
73	27	0.730	73.8	0.717	70.1	0.703	66.5	0.690	63.2	0.677	60.0	0.663	56.9	73
74	28	0.758	74.1	0.745	70.4	0.731	66.9	0.718	63.6	0.704	60.5	0.691	57.4	74
75	29	0.787	74.4	0.773	70.8	0.760	67.3	0.746	64.0	0.733	60.9	0.719	57.9	75
76	30	0.816	74.7	0.802	71.1	0.789	67.7	0.775	64.4	0.762	61.3	0.748	58.4	76
77	30	0.846	75.0	0.832	71.4	0.819	68.1	0.805	64.8	0.792	61.8	0.778	58.8	77
78	31	0.877	75.3	0.863	71.8	0.850	68.4	0.836	65.2	0.823	62.2	0.809	59.2	78
79	32	0.909	75.6	0.895	72.1	0.882	68.8	0.868	65.6	0.855	62.6	0.841	59.7	79
80	33	0.942	75.8	0.928	72.4	0.915	69.1	0.901	66.0	0.897	63.0	0.874	60.1	80
81	34	0.976	76.1	0.962	72.7	0.948	69.4	0.935	66.3	0.921	63.4	0.908	60.5	81
82	35	1.011	76.4	0.997	73.0	0.983	69.8	0.970	66.7	0.956	63.7	0.943	60.9	82
83	36	1.046	76.6	1.033	73.3	1.019	70.1	1.006	67.0	0.992	64.1	0.978	61.3	83
84	37	1.083	76.8	1.070	73.5	1.056	70.4	1.042	67.3	1.029	64.4	1.015	61.7	84
85	38	1.121	77.1	1.108	73.8	1.094	70.7	1.080	67.7	1.067	64.8	1.053	62.0	85
86	38	1.160	77.3	1.147	74.1	1.133	70.9	1.119	68.0	1.106	65.1	1.092	62.4	86
87	39	1.201	77.5	1.187	74.3	1.174	71.2	1.160	68.3	1.146	65.4	1.133	62.7	87
88	40	1.241	77.7	1.228	74.6	1.214	71.5	1.200	68.6	1.187	65.8	1.173	63.1	88
89	42	1.284	78.0	1.270	74.8	1.256	71.8	1.243	68.9	1.229	66.1	1.215	63.4	89
90	44	1.327	78.2	1.314	75.0	1.300	72.0	1.286	69.1	1.273	66.4	1.259	63.7	90
91	45	1.372	78.4	1.359	75.3	1.345	72.3	1.331	69.4	1.317	66.7	1.304	64.0	91
92	46	1.418	78.6	1.405	75.5	1.391	72.5	1.377	69.7	1.363	67.0	1.350	64.3	92
93	47	1.466	78.8	1.452	75.7	1.438	72.8	1.425	69.9	1.411	67.2	1.397	64.6	93
94	49	1.514	79.0	1.501	75.9	1.487	73.0	1.473	70.2	1.459	67.5	1.446	64.9	94
95	50	1.564	79.1	1.550	76.1	1.537	73.2	1.523	70.4	1.509	67.8	1.495	65.2	95
96	51	1.615	79.3	1.602	76.3	1.588	73.4	1.574	70.7	1.560	68.0	1.546	65.5	96
97	52	1.668	79.5	1.654	76.5	1.640	73.7	1.627	70.9	1.613	68.3	1.599	65.8	97
98	54	1.722	79.7	1.708	76.7	1.694	73.9	1.681	71.2	1.667	68.5	1.653	66.0	98
99	56	1.778	79.8	1.764	76.9	1.750	74.1	1.736	71.4	1.722	68.8	1.709	66.3	99
100	57	1.835	80.0	1.821	77.1	1.807	74.3	1.793	71.6	1.780	69.0	1.766	66.5	100
101	59	1.893	80.2	1.880	77.3	1.866	74.5	1.852	71.8	1.838	69.3	1.824	66.8	101
102	60	1.954	80.3	1.940	77.4	1.926	74.7	1.912	72.0	1.898	69.5	1.884	67.0	102
103	61	2.015	80.5	2.001	77.6	1.987	74.9	1.974	72.3	1.960	69.7	1.946	67.3	103
104	62	2.078	80.6	2.064	77.8	2.051	75.1	2.037	72.5	2.023	69.9	2.009	67.5	104

Mean Horizontal Difference of Force of Vapour for 0°.1 = 0.0013.

Temperature, Fahrenheit. Force of Vapour in English Inches. Relative Humidity in Hundredths.

Wet Bulb Thermometer t'	Mean Vertical Difference of Force of Vapour for 0°.1.	t−t', or Difference of Dry and Wet Thermometers.												Wet Bulb Thermometer t'
		12°		13°		14°		15°		16°		17°		
		Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	
		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.		
32°		0.025	8.8	0.012	4.1									32°
33	0.0007	0.032	10.8	0.019	6.2									33
34	07	0.040	12.7	0.027	8.2	0.014	4.1							34
35	07	0.048	14.6	0.034	10.1	0.021	6.1							35
36	08	0.056	16.4	0.042	12.0	0.029	8.1	0.016	4.4					36
37	08	0.064	18.2	0.051	13.9	0.038	10.0	0.025	6.4					37
38	09	0.072	19.9	0.059	15.7	0.046	11.9	0.033	8.3	0.020	4.8			38
39	09	0.081	21.6	0.068	17.5	0.055	13.7	0.042	10.1	0.029	6.7	0.016	3.6	39
40	09	0.091	23.3	0.078	19.2	0.064	15.4	0.051	11.9	0.038	8.5	0.025	5.4	40
41	10	0.100	24.9	0.087	20.8	0.074	17.1	0.061	13.6	0.048	10.3	0.035	7.2	41
42	10	0.110	26.4	0.097	22.4	0.084	18.6	0.071	15.1	0.058	11.9	0.044	8.8	42
43	10	0.120	27.8	0.107	23.9	0.095	20.1	0.081	16.6	0.068	13.4	0.055	10.4	43
44	11	0.131	29.2	0.118	25.3	0.104	21.5	0.091	18.1	0.078	15.0	0.065	12.0	44
45	11	0.142	30.5	0.129	26.7	0.115	22.9	0.102	19.6	0.089	16.5	0.076	13.5	45
46	11	0.153	31.8	0.140	28.1	0.127	24.3	0.114	21.0	0.100	17.9	0.087	15.0	46
47	12	0.165	33.0	0.152	29.3	0.138	25.7	0.125	22.4	0.112	19.3	0.099	16.5	47
48	12	0.177	34.2	0.164	30.6	0.151	27.0	0.137	23.8	0.124	20.7	0.111	17.9	48
49	13	0.190	35.3	0.176	31.7	0.163	28.3	0.150	25.1	0.137	22.1	0.124	19.3	49
50	13	0.202	36.4	0.189	32.9	0.176	29.5	0.163	26.4	0.150	23.4	0.136	20.6	50
51	14	0.216	37.5	0.202	34.0	0.189	30.7	0.176	27.6	0.163	24.6	0.150	21.9	51
52	14	0.229	38.5	0.216	35.1	0.203	31.8	0.190	28.7	0.177	25.8	0.163	23.1	52
53	14	0.244	39.5	0.231	36.1	0.217	32.9	0.204	29.9	0.191	27.0	0.178	24.3	53
54	15	0.259	40.5	0.245	37.1	0.232	34.0	0.219	30.9	0.206	28.1	0.192	25.4	54
55	15	0.274	41.5	0.261	38.1	0.247	35.0	0.234	32.0	0.221	29.2	0.208	26.5	55
56	16	0.290	42.4	0.276	39.1	0.263	35.9	0.250	33.0	0.237	30.2	0.223	27.6	56
57	16	0.306	43.2	0.293	40.0	0.280	36.9	0.266	34.0	0.253	31.2	0.240	28.6	57
58	17	0.323	44.1	0.310	40.8	0.296	37.8	0.283	34.9	0.270	32.2	0.256	29.6	58
59	17	0.340	44.9	0.327	41.7	0.314	38.7	0.300	35.8	0.287	33.1	0.274	30.5	59
60	18	0.358	45.7	0.345	42.5	0.331	39.5	0.318	36.7	0.305	34.0	0.291	31.4	60
61	18	0.376	46.4	0.363	43.3	0.350	40.3	0.336	37.5	0.323	34.9	0.310	32.4	61
62	19	0.396	47.2	0.382	44.1	0.369	41.2	0.356	38.4	0.342	35.7	0.329	33.2	62
63	20	0.415	47.9	0.402	44.8	0.389	41.9	0.375	39.2	0.362	36.6	0.349	34.1	63
64	21	0.436	48.6	0.422	45.6	0.409	42.7	0.396	40.0	0.382	37.4	0.369	34.9	64
65	21	0.457	49.3	0.443	46.3	0.431	43.4	0.417	40.7	0.403	38.2	0.390	35.7	65
66	22	0.478	49.9	0.465	47.0	0.452	44.1	0.438	41.5	0.425	38.9	0.411	36.5	66
67	23	0.501	50.6	0.487	47.6	0.474	44.8	0.460	42.2	0.447	39.6	0.434	37.2	67

Mean Horizontal Difference of Force of Vapour for 0°.1 = 0.0013.

Temperature, Fahrenheit. Force of Vapour in English Inches. Relative Humidity in Hundredths.

Wet Bulb Thermometer t'	Mean Vertical Difference of Force of Vapour for 0°.1	t−t', or Difference of Dry and Wet Thermometers.												Wet Bulb Thermometer t'
		12°		13°		14°		15°		16°		17°		
		Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	
		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.		
68°		0.524	51.2	0.510	48.3	0.497	45.5	0.483	42.8	0.470	40.3	0.456	37.9	68°
69	0.0024	0.547	51.8	0.534	48.9	0.520	46.1	0.507	43.5	0.494	41.0	0.480	38.7	69
70	24	0.572	52.4	0.558	49.5	0.545	46.8	0.531	44.2	0.518	41.7	0.504	39.3	70
71	25	0.597	52.9	0.583	50.1	0.570	47.4	0.556	44.8	0.543	42.4	0.529	40.0	71
72	26	0.623	53.5	0.609	50.7	0.596	48.0	0.582	45.4	0.569	43.0	0.555	40.7	72
73	26	0.650	54.0	0.636	51.3	0.623	48.6	0.609	46.0	0.596	43.6	0.582	41.3	73
74	27	0.677	54.5	0.664	51.8	0.650	49.2	0.637	46.6	0.623	44.2	0.610	41.9	74
75	28	0.705	55.0	0.692	52.3	0.678	49.7	0.665	47.2	0.651	44.8	0.638	42.5	75
76	29	0.735	55.5	0.721	52.9	0.708	50.3	0.694	47.7	0.681	45.4	0.667	43.1	76
77	30	0.765	56.0	0.752	53.4	0.739	50.8	0.724	48.2	0.711	45.9	0.697	43.6	77
78	31	0.796	56.5	0.782	53.8	0.768	51.3	0.755	48.8	0.741	46.4	0.728	44.2	78
79	32	0.827	56.9	0.814	54.3	0.800	51.8	0.787	49.3	0.773	47.0	0.760	44.7	79
80	33	0.860	57.3	0.847	54.8	0.833	52.2	0.820	49.8	0.806	47.5	0.792	45.3	80
81	34	0.894	57.8	0.880	55.2	0.867	52.7	0.853	50.3	0.840	48.0	0.826	45.8	81
82	35	0.929	58.2	0.915	55.6	0.902	53.2	0.888	50.7	0.875	48.5	0.861	46.3	82
83	36	0.965	58.6	0.951	56.1	0.937	53.6	0.924	51.2	0.910	48.9	0.897	46.8	83
84	37	1.002	59.0	0.988	56.5	0.974	54.0	0.961	51.6	0.947	49.4	0.933	47.2	84
85	38	1.039	59.4	1.026	56.8	1.012	54.4	0.998	52.1	0.985	49.8	0.971	47.7	85
86	39	1.078	59.7	1.065	57.2	1.051	54.8	1.037	52.5	1.024	50.3	1.010	48.1	86
87	40	1.119	60.1	1.105	57.6	1.092	55.2	1.078	52.9	1.064	50.7	1.051	48.6	87
88	41	1.159	60.5	1.146	58.0	1.132	55.6	1.118	53.3	1.105	51.1	1.091	49.0	88
89	42	1.202	60.9	1.188	58.3	1.174	56.0	1.161	53.7	1.147	51.5	1.133	49.4	89
90	44	1.245	61.3	1.231	58.7	1.218	56.3	1.204	54.1	1.190	51.9	1.177	49.8	90
91	45	1.290	61.6	1.276	59.0	1.263	56.7	1.249	54.5	1.235	52.3	1.221	50.2	91
92	46	1.336	61.9	1.322	59.4	1.309	57.0	1.295	54.8	1.281	52.7	1.267	50.6	92
93	47	1.383	62.2	1.370	59.7	1.356	57.4	1.342	55.2	1.328	53.0	1.315	51.0	93
94	49	1.432	62.5	1.418	60.0	1.404	57.7	1.390	55.5	1.377	53.4	1.363	51.4	94
95	50	1.482	62.7	1.468	60.4	1.454	58.1	1.440	55.9	1.426	53.7	1.413	51.7	95
96	51	1.533	63.0	1.519	60.7	1.505	58.4	1.491	56.2	1.477	54.1	1.464	52.1	96
97	52	1.585	63.3	1.571	61.0	1.558	58.7	1.544	56.5	1.530	54.4	1.516	52.4	97
98	54	1.639	63.6	1.625	61.3	1.612	59.0	1.598	56.8	1.584	54.8	1.570	52.8	98
99	56	1.695	63.9	1.681	61.6	1.667	59.3	1.653	57.2	1.639	55.1	1.626	53.1	99
100	57	1.752	64.2	1.738	62.0	1.724	59.6	1.710	57.5	1.696	55.4	1.683	53.4	100
101	59	1.810	64.4	1.797	62.3	1.783	59.9	1.769	57.8	1.755	55.7	1.741	53.7	101
102	60	1.870	64.7	1.857	62.6	1.843	60.2	1.829	58.0	1.815	56.0	1.802	54.0	102
103	62	1.932	64.9	1.918	62.9	1.904	60.4	1.890	58.3	1.876	56.3	1.863	54.3	103
104	63	1.995	65.2	1.981	63.2	1.967	60.7	1.953	58.6	1.939	56.6	1.925	54.6	104

Mean Horizontal Difference of Force of Vapour for 0°.1 = 0.0013.

Temperature, Fahrenheit. Force of Vapour in English Inches Relative Humidity in Hundredths.

Wet Bulb Thermometer t'	Mean Vertical Difference of Force of Vapour for 0°·1.	t−t', or Difference of Dry and Wet Thermometers. 18°		19°		20°		21°		22°		23°		Wet Bulb Thermometer t
		Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	
32°		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.		32°
33														33
34														34
35														35
36														36
37														37
38														38
39														39
40	0.0010	0.012	2.5											40
41	10	0.022	4.3	0.009	1.6									41
42	10	0.031	6.0	0.018	3.3									42
43	11	0.041	7.6	0.028	5.0	0.015	2.6							43
44	11	0.052	9.2	0.039	6.6	0.026	4.3	0.013	2.0					44
45	11	0.063	10.8	0.050	8.2	0.037	5.9	0.023	3.7	0.010	1.6			45
46	12	0.074	12.3	0.061	9.7	0.048	7.5	0.035	5.2	0.022	3.1			46
47	12	0.086	13.8	0.073	11.2	0.059	9.0	0.046	6.8	0.033	4.7	0.020	2.7	47
48	13	0.098	15.2	0.085	12.7	0.072	10.4	0.058	8.2	0.045	6.2	0.032	4.2	48
49	13	0.110	16.6	0.097	14.1	0.084	11.9	0.071	9.7	0.058	7.6	0.044	5.7	49
50	13	0.123	18.0	0.110	15.5	0.097	13.2	0.084	11.0	0.070	9.0	0.057	7.1	50
51	14	0.136	19.3	0.123	16.8	0.110	14.5	0.097	12.3	0.084	10.3	0.070	8.3	51
52	14	0.150	20.5	0.137	18.1	0.124	15.7	0.110	13.5	0.097	11.5	0.084	9.6	52
53	15	0.164	21.7	0.151	19.3	0.138	16.9	0.125	14.8	0.111	12.8	0.098	10.9	53
54	15	0.179	22.9	0.166	20.5	0.152	18.1	0.139	16.0	0.126	14.0	0.113	12.1	54
55	16	0.194	24.0	0.181	21.6	0.168	19.2	0.155	17.1	0.141	15.1	0.128	13.3	55
56	16	0.210	25.1	0.197	22.7	0.184	20.4	0.170	18.2	0.157	16.3	0.144	14.4	56
57	17	0.226	26.1	0.213	23.8	0.200	21.5	0.186	19.4	0.173	17.4	0.160	15.6	57
58	17	0.243	27.1	0.230	24.8	0.217	22.6	0.203	20.5	0.190	18.5	0.177	16.7	58
59	18	0.260	28.1	0.247	25.8	0.234	23.6	0.220	21.5	0.207	19.6	0.194	17.7	59
60	19	0.278	29.0	0.265	26.8	0.251	24.6	0.238	22.5	0.225	20.6	0.211	18.7	60
61	19	0.296	30.0	0.283	27.7	0.270	25.5	0.256	23.4	0.243	21.5	0.230	19.7	61
62	20	0.316	30.9	0.302	28.6	0.289	26.5	0.275	24.4	0.262	22.4	0.249	20.6	62
63	20	0.335	31.7	0.322	29.5	0.308	27.4	0.295	25.3	0.282	23.3	0.268	21.5	63
64	21	0.355	32.6	0.342	30.4	0.329	28.2	0.315	26.1	0.302	24.2	0.289	22.4	64
65	22	0.376	33.4	0.363	31.2	0.350	29.1	0.336	27.0	0.323	25.1	0.309	23.3	65
66	23	0.398	34.2	0.385	32.0	0.371	29.9	0.358	27.9	0.344	26.0	0.331	24.2	66
67		0.420	34.9	0.407	32.8	0.393	30.7	0.380	28.7	0.367	26.8	0.353	25.0	67

Mean Horizontal Difference of Force of Vapour for 0°.1 = 0.0013.

Temperature, Fahrenheit. Force of Vapour in English Inches. Relative Humidity in Hundredths. .

Wet Bulb Thermometer t'	Mean Vertical Difference of Force of Vapour for 0°·1.	t−t', or Difference of Dry and Wet Thermometers.												Wet Bulb Thermometer t'
		18°		19°		20°		21°		22°		23°		
		Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	Force of Vapour.	Relative Humidity.	
		Inches.		Inches.		Inches.		Inches.		Inches.		Inches.		
68°		0.443	35.7	0.430	33.5	0.416	31.4	0.403	29.5	0.389	27.6	0.376	25.8	68°
69	0.0024	0.467	36.4	0.453	34.2	0.440	32.2	0.426	30.2	0.413	28.4	0.399	26.6	69
70	25	0.491	37.1	0.477	35.0	0.464	32.9	0.451	31.0	0.437	29.1	0.424	27.4	70
71	25	0.516	37.8	0.502	35.7	0.489	33.6	0.476	31.7	0.462	29.9	0.449	28.1	71
72	26	0.542	38.5	0.528	36.3	0.515	34.3	0.501	32.4	0.488	30.6	0.475	28.8	72
73	26	0.569	39.1	0.555	37.0	0.542	35.0	0.528	33.1	0.515	31.3	0.501	29.5	73
74	27	0.596	39.7	0.583	37.7	0.569	35.7	0.556	33.8	0.542	31.9	0.529	30.2	74
75	28	0.624	40.3	0.611	38.3	0.597	36.3	0.584	34.4	0.570	32.6	0.557	30.9	75
76	29	0.654	40.9	0.640	38.9	0.627	36.9	0.613	35.0	0.599	33.2	0.586	31.5	76
77	30	0.683	41.5	0.670	39.5	0.656	37.5	0.643	35.6	0.629	33.8	0.616	32.1	77
78	31	0.714	42.1	0.701	40.0	0.687	38.1	0.674	36.2	0.660	34.4	0.647	32.7	78
79	32	0.746	42.6	0.732	40.6	0.719	38.6	0.705	36.8	0.692	35.0	0.678	33.3	79
80	33	0.779	43.2	0.765	41.1	0.752	39.2	0.738	37.4	0.724	35.6	0.711	33.9	80
81	34	0.813	43.7	0.799	41.7	0.785	39.7	0.772	37.9	0.758	36.1	0.745	34.5	81
82	35	0.847	44.2	0.834	42.2	0.820	40.2	0.806	38.4	0.793	36.7	0.779	35.0	82
83	36	0.883	44.7	0.869	42.7	0.856	40.7	0.842	39.0	0.829	37.2	0.815	35.5	83
84	36	0.920	45.2	0.906	43.2	0.893	41.3	0.879	39.5	0.865	37.7	0.852	36.1	84
85	38	0.958	45.6	0.944	43.7	0.930	41.8	0.917	40.0	0.903	38.2	0.889	36.6	85
86	39	0.996	46.1	0.983	44.1	0.969	42.3	0.955	40.4	0.942	38.7	0.928	37.1	86
87	40	1.037	46.5	1.023	44.6	1.010	42.7	0.995	40.9	0.981	39.2	0.968	37.5	87
88	41	1.077	47.0	1.064	45.0	1.050	43.2	1.036	41.4	1.022	39.7	1.009	38.0	88
89	42	1.119	47.4	1.106	45.5	1.092	43.6	1.078	41.8	1.065	40.1	1.051	38.5	89
90	43	1.163	47.8	1.149	45.9	1.136	44.1	1.122	42.3	1.108	40.6	1.094	38.9	90
91	45	1.208	48.2	1.194	46.3	1.180	44.5	1.166	42.7	1.153	41.0	1.139	39.4	91
92	47	1.254	48.6	1.240	46.7	1.226	44.9	1.212	43.1	1.199	41.4	1.185	39.8	92
93	48	1.301	49.0	1.287	47.1	1.273	45.3	1.260	43.5	1.246	41.9	1.232	40.2	93
94	49	1.349	49.4	1.335	47.5	1.322	45.7	1.308	43.9	1.294	42.3	1.280	40.6	94
95	50	1.399	49.8	1.385	47.9	1.371	46.1	1.358	44.3	1.344	42.7	1.330	41.0	95
96	51	1.450	50.1	1.436	48.3	1.422	46.5	1.408	44.7	1.395	43.0	1.381	41.4	96
97	53	1.502	50.5	1.489	48.6	1.475	46.8	1.461	45.1	1.447	43.4	1.433	41.8	97
98	54	1.556	50.8	1.543	49.0	1.529	47.2	1.515	45.5	1.501	43.8	1.487	42.2	98
99	55	1.612	51.2	1.598	49.3	1.584	47.5	1.570	45.8	1.556	44.2	1.543	42.6	99
100	57	1.669	51.5	1.655	49.7	1.641	47.9	1.627	46.2	1.613	44.5	1.600	43.0	100
101	58	1.727	51.8	1.713	50.0	1.700	48.2	1.686	46.5	1.672	44.9	1.658	43.3	101
102	60	1.787	52.2	1.773	50.3	1.759	48.6	1.746	46.8	1.732	45.2	1.718	43.7	102
103	62	1.849	52.5	1.835	50.7	1.821	48.9	1.807	47.2	1.793	45.6	1.779	44.0	103
104	63	1.912	52.8	1.898	51.0	1.884	49.2	1.870	47.5	1.856	45.9	1.842	44.3	104

Mean Horizontal Difference of Force of Vapour for 0°.1 = 0.0013.

Temperature, Fahrenheit. Force of Vapour in English Inches. Relative Humidity in Hundredths.

Wet Bulb Thermometer t	Mean Vertical Difference of Force of Vapour for 0°·1	t − t′, or Difference of Dry and Wet Thermometers. 24° Force of Vapour.	24° Relative Humidity.	25° Force of Vapour	25° Relative Humidity.	26° Force of Vapour.	26° Relative Humidity.	Wet Bulb Thermometer t	Mean Vertical Difference of Force of Vapour for 0°·1	t − t′, or Difference of Dry and Wet Thermometers. 24° Force of Vapour.	24° Relative Humidity.	25° Force of Vapour	25° Relative Humidity.	26° Force of Vapour	26° Relative Humidity.
		Inches.		Inches.		Inches.				Inches.		Inches.		Inches.	
32°								68°	0·0024	0.363	24.2	0.349	22.5	0.336	21.0
33								69	24	0.386	24.9	0.373	23.3	0.359	21.8
34								70	25	0.410	25.7	0.397	24.1	0.383	22.6
35								71	26	0.435	26.4	0.422	24.9	0.408	23.3
36								72	27	0.461	27.2	0.448	25.6	0.434	24.1
37								73	28	0.488	27.9	0.474	26.3	0.461	24.8
38								74	28	0.515	28.5	0.502	27.0	0.488	25.5
39								75	29	0.543	29.2	0.530	27.6	0.516	26.1
40								76	30	0.572	29.8	0.559	28.3	0.545	26.8
41								77	31	0.602	30.5	0.589	28.9	0.575	27.4
42								78	32	0.633	31.1	0.619	29.5	0.606	28.0
43								79	33	0.665	31.7	0.651	30.1	0.638	28.6
44								80	34	0.697	32.3	0.684	30.7	0.670	29.2
45								81	35	0.731	32.8	0.717	31.3	0.704	29.8
46								82	36	0.766	33.4	0.752	31.8	0.738	30.4
47								83	37	0.801	33.9	0.788	32.4	0.774	30.9
48	0.0013	0.019	2.4					84	38	0.838	34.5	0.824	32.9	0.811	31.5
49	13	0.031	3.9	0.018	2.2			85	39	0.876	35.0	0.862	33.4	0.848	32.0
50	13	0.044	5.2	0.031	3.6	0.018	2.0	86	40	0.914	35.5	0.901	33.9	0.887	32.5
51	14	0.057	6.5	0.044	4.9	0.031	3.3	87	41	0.954	36.0	0.940	34.4	0.927	33.0
52	14	0.071	7.8	0.058	6.1	0.044	4.6	88	42	0.995	36.4	0.981	34.9	0.968	33.5
53	15	0.085	9.1	0.072	7.4	0.058	5.8	89	44	1.037	36.9	1.024	35.4	1.010	33.9
54	15	0.100	10.3	0.086	8.6	0.073	7.0	90	45	1.081	37.4	1.067	35.8	1.053	34.4
55	16	0.115	11.5	0.102	9.8	0.088	8.2	91	46	1.125	37.8	1.112	36.3	1.098	34.9
56	16	0.130	12.7	0.117	11.0	0.104	9.4	92	48	1.171	38.2	1.157	36.7	1.144	35.3
57	17	0.147	13.8	0.133	12.1	0.120	10.6	93	49	1.218	38.7	1.205	37.1	1.191	35.7
58	17	0.163	14.9	0.150	13.2	0.137	11.7	94	50	1.267	39.1	1.253	37.5	1.239	36.2
59	18	0.180	16.0	0.167	14.3	0.154	12.8	95	51	1.316	39.5	1.302	37.9	1.289	36.6
60	19	0.198	17.0	0.185	15.3	0.172	13.8	96	53	1.367	39.9	1.353	38.3	1.340	37.0
61	19	0.216	17.9	0.203	16.3	0.190	14.7	97	54	1.420	40.3	1.406	38.7	1.392	37.4
62	20	0.235	18.9	0.222	17.2	0.209	15.7	98	56	1.473	40.7	1.460	39.1	1.446	37.8
63	20	0.255	19.8	0.242	18.2	0.228	16.6	99	57	1.529	41.1	1.515	39.5	1.501	38.2
64	21	0.275	20.7	0.262	19.1	0.248	17.5	100	59	1.586	41.4	1.572	39.9	1.558	38.5
65	22	0.296	21.6	0.283	20.0	0.269	18.4	101	60	1.644	41.8	1.630	40.3	1.616	38.9
66	23	0.318	22.5	0.304	20.9	0.291	19.3	102	62	1.704	42.2	1.690	40.7	1.676	39.3
67		0.340	23.3	0.326	21.7	0.313	20.2	103	63	1.765	42.5	1.752	41.0	1.738	39.6
								104		1.828	42.8	1.814	41.4	1.800	40.0

Mean Horizontal Difference of Force of Vapour for 0°.1 = 0.0013.

Proportional Parts for Tenths of a Degree of the Wet Bulb Thermometer, and of the Depression of the Reading of the Wet Bulb Thermometer below that of the Dry Bulb, to be employed with the Psychrometrical Tables in finding the Pressure of Vapour.

In using the Tables proceed as follows:—

(1.) From the Psychrometrical Tables take out the Pressure of Vapour corresponding to the Degree of the Wet Bulb Thermometer, and to the Degree of the difference, or Depression of the Wet Bulb Temperature.

(2.) Apply the correction for Tenths of Wet Bulb in Table I., adding or subtracting according as the Reading of the Wet Bulb is above or below zero.

(3.) Subtract the correction in Table II., for the Tenths of a Degree in the difference.

TABLE I.

Degrees of Wet Bulb Thermometer.	Tenths of a Degree of Wet Bulb Thermometer.								
	.1	.2	.3	.4	.5	.6	.7	.8	.9
— 30° to — 27°	..	..	..	..	..	..	..	..	—.001
— 26 " — 25	..	..	..	..	..	..	..	—.001	—.001
— 24 " — 20	..	..	..	..	..	..	—.001	—.001	—.001
— 19	..	..	..	..	..	—.001	—.001	—.001	—.001
— 18 " — 7	..	..	..	..	—.001	—.001	—.001	—.001	—.001
— 6 " 0	..	..	—.001	—.001	—.001	—.001	—.001	—.002	—.002
0 " 5	+ 000	+ 000	+ 001	+ 001	+ 001	+ 001	+ 001	+ 002	+ 002
6 " 12	000	.001	.001	.001	.002	.002	.002	.002	.003
13 " 17	000	.001	.001	.002	.002	.002	.003	.003	.004
18 " 22	.001	.001	.002	.002	.003	.003	.004	.004	.005
23 " 27	.001	.001	.002	.002	.003	.004	.004	.005	.005
28 " 32	.001	.001	.002	.003	.004	.004	.005	.006	.006
33 " 35	.001	.002	.002	.003	.004	.005	.006	.006	.007
36 " 39	.001	.002	.003	.004	.005	.005	.006	.007	.008
40 " 42	.001	.002	.003	.004	.005	.006	.007	.008	.009
43 " 45	.001	.002	.003	.004	.006	.007	.008	.009	.010
46 " 47	.001	.002	.004	.005	.006	.007	.008	.010	.011
48 " 50	.001	.003	.004	.005	.007	.008	.009	.010	.012
51 " 52	.001	.003	.004	.006	.007	.008	.010	.011	.013
53 " 54	.002	.003	.005	.006	.008	.009	.011	.012	.014
55 " 56	.002	.003	.005	.006	.008	.010	.011	.013	.014
57 " 58	.002	.003	.005	.007	.009	.010	.012	.014	.015
59	.002	.004	.005	.007	.009	.011	.013	.014	.016
60 " 61	.002	.004	.006	.008	.010	.011	.013	.015	.017
62 " 63	.002	.004	.006	.008	.010	.012	.014	.016	.018
64	.002	.004	.006	.008	.011	.013	.015	.017	.019
65	.002	.004	.007	.009	.011	.013	.015	.018	.020
66 " 68	.002	.005	.007	.009	.012	.014	.016	.018	.021
69	.002	.005	.007	.010	.012	.014	.017	.019	.022
70	.003	.005	.008	.010	.013	.015	.018	.020	.023
71	.003	.005	.008	.010	.013	.016	.018	.021	.023

TABLE II.

Tenths of a Degree of the difference between the Dry and Wet Bulb Thermometers.

	.1	.2	.3	.4	.5	.6	.7	.8	.9
Below Freezing	—.001	—.002	—.003	—.004	—.006	.007	—.008	—.009	—.010
Above "	—.001	—.003	—.004	—.005	—.007	—.008	—.009	—.010	—.012

Proportional Parts for Tenths of the Degree of a Wet Bulb Thermometer, and of the Depression of the Reading of the Wet Bulb Thermometer below that of the Dry Bulb, to be employed with the Psychrometrical Tables in finding the Pressure of Vapour.

In using the Tables proceed as follows:—

(1.) From the Psychrometrical Tables take out the Pressure of Vapour corresponding to the Degree of the Wet Bulb Thermometer, and to the Degree of the difference, or Depression of the Wet Bulb Temperature.

(2.) Apply the correction for Tenths of Wet Bulb in Table I., adding and subtracting according as the Reading of the Wet Bulb is above or below zero.

(3.) Subtract the correction in Table II., for the Tenths of a Degree in the difference.

TABLE I.

Degrees of Wet Bulb Thermometer.	Tenths of a Degree of Wet Bulb Thermometer.								
	.1	.2	.3	.4	.5	.6	.7	.8	.9
72° ..	+.003	+.005	+.008	+.011	+.014	+.016	+.019	+.022	+.024
73 to 74 ..	.003	.006	.008	.011	.014	.017	.020	.022	.025
75 ..	.003	.006	.009	.012	.015	.017	.020	.023	.026
76 ..	.003	.006	.009	.012	.015	.018	.021	.024	.027
77 ..	.003	.006	.009	.012	.016	.019	.022	.025	.028
78 ..	.003	.006	.010	.013	.016	.019	.022	.026	.029
79 ..	.003	.007	.010	.013	.017	.020	.023	.026	.030
80 ..	.003	.007	.010	.014	.017	.020	.024	.027	.031
81 ..	.004	.007	.011	.014	.018	.021	.025	.028	.032
82 ..	.004	.007	.011	.014	.018	.022	.025	.029	.032
83 ..	.004	.007	.011	.015	.019	.022	.026	.030	.033
84 ..	.004	.008	.011	.015	.019	.023	.027	.030	.034
85 ..	.004	.008	.012	.016	.020	.023	.027	.031	.035
86 ..	.004	.008	.012	.016	.020	.024	.028	.032	.036
87 ..	.004	.008	.012	.016	.021	.025	.029	.033	.037
88 ..	.004	.008	.013	.017	.021	.025	.029	.034	.038
89 ..	.004	.009	.013	.018	.022	.026	.031	.035	.040
90 ..	.005	.009	.014	.018	.023	.027	.032	.036	.041
91 ..	.005	.009	.014	.018	.023	.028	.032	.037	.041
92 ..	.005	.010	.014	.019	.024	.029	.034	.038	.043
93 ..	.005	.010	.015	.020	.025	.029	.034	.039	.044
94 ..	.005	.010	.015	.020	.025	.030	.035	.040	.045
95 ..	.005	.010	.015	.020	.026	.031	.036	.041	.046
96 ..	.005	.011	.016	.021	.027	.032	.037	.042	.048
97 ..	.005	.011	.016	.022	.027	.032	.038	.043	.049
98 ..	.006	.011	.017	.022	.028	.034	.039	.045	.050
99 ..	.006	.011	.017	.023	.029	.034	.040	.046	.051
100 ..	.006	.012	.018	.024	.030	.035	.041	.047	.053
101 ..	.006	.012	.018	.024	.030	.036	.042	.048	.054
102 ..	.006	.012	.019	.025	.031	.037	.043	.050	.056
103 ..	.006	.013	.019	.025	.032	.038	.044	.050	.057

TABLE II.

Tenths of a Degree of the difference between the Dry and Wet Bulb Thermometers.

	.1	.2	.3	.4	.5	.6	.7	.8	.9
Above Freezing	—.001	—.003	—.004	—.005	—.007	—.008	—.009	—.110	—.012

TABLE

GIVING

THE RELATIVE HUMIDITY

IN HUNDREDTHS,

For every degree of temperature (t') of the wet bulb, from $-31°$ to $+31°$ Fahrenheit, and for every *tenth* of a degree of difference ($t-t'$) between the temperature (t) of the air and the temperature (t') of the wet bulb.

Relative Humidity for every Tenth of a Degree of t—t'. Temperature, Fahrenheit. Relative Humidity in Hundredths.

Wet Bulb Thermometer t'	t—t', or Difference of Dry and Wet Thermometers. t' below the freezing point. Bulb covered with a film of ice.										Wet Bulb Thermometer t'
	0°.0	0°.1	0°.2	0°.3	0°.4	0°.5	0°.6	0°.7	0°.8	0°.9	
—31°	100	88	76	64	52	40	29	17	6		—31°
—30	100	88	77	66	54	43	32	22	11		—30
—29	100	89	78	67	57	46	36	26	15	5	—29
—28	100	90	79	69	59	49	39	29	20	10	—28
—27	100	90	80	71	61	52	42	33	24	15	—27
—26	100	91	81	72	63	54	45	36	27	19	—26
—25	100	91	82	73	65	56	48	39	31	23	—25
—24	100	91	83	75	66	58	50	42	34	27	—24
—23	100	92	84	76	68	60	53	45	37	30	—23
—22	100	92	85	77	70	62	55	48	40	33	—22
—21	100	93	85	78	71	64	57	50	43	36	—21
—20	100	93	86	79	72	66	59	52	46	39	—20
—19	100	93	87	80	74	67	61	54	48	42	—19
—18	100	94	87	81	75	69	62	56	50	45	—18
—17	100	94	88	82	76	70	64	58	53	47	—17
—16	100	94	88	83	77	71	66	60	55	49	—16
—15	100	94	89	83	78	73	67	62	57	52	—15
—14	100	95	89	84	79	74	69	64	59	54	—14
—13	100	95	90	85	80	75	70	65	60	56	—13
—12	100	95	90	85	81	76	71	67	62	57	—12
—11	100	95	91	86	81	77	72	68	64	59	—11
—10	100	95	91	87	82	78	74	69	65	61	—10
— 9	100	96	91	87	83	79	75	71	67	63	— 9
— 8	100	96	92	88	84	80	76	72	68	64	— 8
— 7	100	96	92	88	84	80	77	73	69	66	— 7
— 6	100	96	92	89	85	81	78	74	70	67	— 6
— 5	100	96	93	89	86	82	79	75	72	68	— 5
— 4	100	96	93	89	86	83	79	76	73	69	— 4
— 3	100	97	93	90	87	83	80	77	74	71	— 3
— 2	100	97	94	90	87	84	81	78	75	72	— 2
— 1	100	97	94	91	88	85	82	79	76	73	— 1
0	100	97	94	91	88	85	82	80	77	74	0

Relative Humidity for every Tenth of a Degree of t—t′. Temperature, Fahrenheit. Relative Humidity in Hundredths.

Wet Bulb Thermometer t′	t—t′, or Difference of Dry and Wet Thermometers. t′ below the freezing point. Bulb covered with a film of ice.										Wet Bulb Thermometer t′
	1°.0	1°.1	1°.2	1°.3	1°.4	1°.5	1°.6	1°.7	1°.8	1°.9	
—28°	1										—28°
—27	6										—27
—26	10	2									—26
—25	15	7									—25
—24	19	11	4								—24
—23	23	15	8	1							—23
—22	26	19	12	6							—22
—21	30	23	16	10	3						—21
—20	33	27	20	14	8	2					—20
—19	36	30	24	18	12	6					—19
—18	39	33	27	22	16	10	5				—18
—17	42	36	30	25	20	14	9	4			—17
—16	44	39	33	28	23	18	13	8	3		—16
—15	47	41	36	31	26	22	17	12	7	3	—15
—14	49	44	39	34	30	25	20	16	11	7	—14
—13	51	46	42	37	33	28	24	19	15	11	—13
—12	53	49	44	40	35	31	27	23	18	14	—12
—11	55	51	46	42	38	34	30	26	22	18	—11
—10	57	53	49	45	41	37	33	29	25	21	—10
— 9	59	55	51	47	43	39	36	32	28	25	— 9
— 8	60	57	53	49	45	42	38	35	31	28	— 8
— 7	62	58	55	51	48	44	41	37	34	30	— 7
— 6	63	60	57	53	50	46	43	40	36	33	— 6
— 5	65	62	58	55	52	48	45	42	39	36	— 5
— 4	66	63	60	57	54	50	47	44	41	38	— 4
— 3	68	64	61	58	55	52	49	46	44	41	— 3
— 2	69	66	63	60	57	54	51	49	46	43	— 2
— 1	70	67	64	61	59	56	53	51	48	45	— 1
0	71	68	66	63	60	58	55	52	50	47	0

Relative Humidity for every Tenth of a Degree of t − t′ Temperature, Fahrenheit. Relative Humidity in Hundredths.

Wet Bulb Thermometer t′	t − t′, or Difference of Dry and Wet Thermometers. t′ below the freezing point. Bulb covered with a film of ice.										Wet Bulb Thermometer t′
	2°.0	2°.1	2°.2	2°.3	2°.4	2°.5	2°.6	2°.7	2°.8	2°.9	
—14°	2										—14°
—13	6	2									—13
—12	10	6	2								—12
—11	14	10	6	2							—11
—10	18	14	10	6	3						—10
— 9	21	17	14	10	7	3					— 9
— 8	24	21	17	14	10	7	4	1			— 8
— 7	27	24	21	17	14	11	8	5	1		— 7
— 6	30	27	24	21	17	14	11	8	5	2	— 6
— 5	33	30	27	24	21	18	15	12	9	6	— 5
— 4	35	32	30	27	24	21	18	15	13	10	— 4
— 3	38	35	32	29	27	24	21	19	16	13	— 3
— 2	40	38	35	32	30	27	24	22	19	17	— 2
— 1	43	40	37	35	32	30	27	25	22	20	— 1
0	45	42	40	37	35	32	30	27	25	23	0
	3°.0	3°.1	3°.2	3°.3	3°.4	3°.5	3°.6	3°.7	3°.8	3°.9	
— 5	3	1									— 5
— 4	7	4	2								— 4
— 3	11	8	6	3	1						— 3
— 2	14	12	9	7	4	2					— 2
— 1	17	15	13	10	8	6	3	1			— 1
0	20	18	16	14	11	9	7	5	3		0

Relative Humidity for every Tenth of a Degree of t—t'. Temperature, Fahrenheit. Relative Humidity in Hundredths.

Wet Bulb Thermometer t'	t—t', or Difference of Dry and Wet Thermometers. t' below the freezing point. Bulb covered with a film of ice.										Wet Bulb Thermometer t'
	0°.0	0°.1	0°.2	0°.3	0°.4	0°.5	0°.6	0°.7	0°.8	0°.9	
0°	100	97	94	91	88	85	82	80	77	74	0°
1	100	97	94	91	89	86	83	80	78	75	1
2	100	97	95	92	89	86	84	81	78	76	2
3	100	97	95	92	89	87	84	82	79	77	3
4	100	97	95	92	90	87	85	82	80	78	4
5	100	98	95	93	90	88	85	83	81	78	5
6	100	98	95	93	91	88	86	84	81	79	6
7	100	98	95	93	91	89	86	84	82	80	7
8	100	98	96	93	91	89	87	85	83	81	8
9	100	98	96	94	92	89	87	85	83	81	9
10	100	98	96	94	92	90	88	86	84	82	10
11	100	98	96	94	92	90	88	86	84	83	11
12	100	98	96	94	92	90	89	87	85	83	12
13	100	98	96	94	93	91	89	87	85	84	13
14	100	98	96	95	93	91	89	88	86	84	14
15	100	98	97	95	93	91	90	88	86	85	15
16	100	98	97	95	93	92	90	88	87	85	16
17	100	98	97	95	94	92	90	89	87	86	17
18	100	98	97	95	94	92	91	89	88	86	18
19	100	98	97	95	94	92	91	89	88	87	19
20	100	99	97	96	94	93	91	90	88	87	20
21	100	99	97	96	94	93	91	90	89	87	21
22	100	99	97	96	94	93	92	90	89	88	22
23	100	99	97	96	95	93	92	91	89	88	23
24	100	99	97	96	95	93	92	91	90	88	24
25	100	99	97	96	95	94	92	91	90	89	25
26	100	99	98	96	95	94	93	91	90	89	26
27	100	99	98	96	95	94	93	92	91	89	27
28	100	99	98	96	95	94	93	92	91	90	28
29	100	99	98	97	95	94	93	92	91	90	29
30	100	99	98	97	96	94	93	92	91	90	30
31	100	99	98	97	96	95	94	93	91	90	31

Relative Humidity for every Tenth of a Degree of t—t'. Temperature, Fahrenheit. Relative Humidity in Hundredths.

Wet Bulb Thermometer t'	t—t', or Difference of Dry and Wet Thermometers. t' below the freezing point. Bulb covered with a film of ice.										Wet Bulb Thermometer t
	1°.0	1°.1	1°.2	1°.3	1°.4	1°.5	1°.6	1°.7	1°.8	1°.9	
0°	71	68	66	63	60	58	55	52	50	47	0°
1	72	70	67	64	62	59	57	54	52	49	1
2	73	71	68	66	63	61	58	56	53	51	2
3	74	72	69	67	65	62	60	57	55	53	3
4	75	73	70	68	66	64	61	59	57	55	4
5	76	74	72	69	67	65	63	60	58	56	5
6	77	75	73	70	68	66	64	62	60	58	6
7	78	76	74	71	69	67	65	63	61	59	7
8	79	76	74	72	70	68	66	65	63	61	8
9	79	77	75	73	71	70	68	66	64	62	9
10	80	78	76	74	72	71	69	67	65	63	10
11	81	79	77	75	73	72	70	68	66	65	11
12	81	80	78	76	74	73	71	69	67	66	12
13	82	80	78	77	75	73	72	70	68	67	13
14	83	81	79	78	76	74	73	71	69	68	14
15	83	81	80	78	77	75	74	72	71	69	15
16	84	82	80	79	77	76	74	73	71	70	16
17	84	83	81	80	78	77	75	74	72	71	17
18	85	83	82	80	79	77	76	75	73	72	18
19	85	84	82	81	79	78	77	75	74	73	19
20	86	84	83	81	80	79	77	76	75	73	20
21	86	85	83	82	81	79	78	77	76	74	21
22	86	85	84	83	81	80	79	77	76	75	22
23	87	86	84	83	82	81	79	78	77	76	23
24	87	86	85	84	82	81	80	79	78	76	24
25	88	86	85	84	83	82	80	79	78	77	25
26	88	87	86	84	83	82	81	80	79	78	26
27	88	87	86	85	84	83	82	80	79	78	27
28	89	87	86	85	84	83	82	81	80	79	28
29	89	88	87	86	85	84	83	81	80	79	29
30	89	88	87	86	85	84	83	82	81	80	30
31	89	88	87	86	86	85	84	83	82	81	31

Relative Humidity for every Tenth of a Degree of t—t′. Temperature, Fahrenheit. Relative Humidity in Hundredths.

Wet Bulb Thermometer t′	t—t′, or Difference of Dry and Wet Thermometers. t′ below the freezing point. Bulb covered with a film of ice.										Wet Bulb Thermometer t′
	2°.0	2°.1	2°.2	2°.3	2°.4	2°.5	2°.6	2°.7	2°.8	2°.9	
0°	45	42	40	37	35	32	30	27	25	23	0°
1	47	44	42	40	37	35	32	30	28	26	1
2	49	46	44	42	39	37	35	33	31	28	2
3	51	48	46	44	42	39	37	35	33	31	3
4	52	50	48	46	44	42	40	38	35	33	4
5	54	52	50	48	46	44	42	40	38	36	5
6	56	54	52	50	48	46	44	42	40	38	6
7	57	55	53	51	50	48	46	44	42	40	7
8	59	57	55	53	51	49	48	46	44	42	8
9	60	58	57	55	53	51	49	48	46	44	9
10	62	60	58	56	55	53	51	49	48	46	10
11	63	61	59	58	56	54	53	51	50	48	11
12	64	62	61	59	58	56	54	53	51	50	12
13	65	64	62	60	59	57	56	54	53	51	13
14	66	65	63	62	60	59	57	56	54	53	14
15	67	66	64	63	62	60	59	57	56	54	15
16	68	67	66	64	63	61	60	59	57	56	16
17	69	68	67	65	64	63	61	60	59	57	17
18	70	69	68	66	65	64	62	61	60	59	18
19	71	70	69	67	66	65	64	62	61	60	19
20	72	71	70	68	67	66	65	63	62	61	20
21	73	72	71	69	68	67	66	64	63	62	21
22	74	73	71	70	69	68	67	66	64	63	22
23	75	73	72	71	70	69	68	66	65	64	23
24	75	74	73	72	71	70	69	67	66	65	24
25	76	75	74	73	72	70	69	68	67	66	25
26	77	76	74	73	72	71	70	69	68	67	26
27	77	76	75	74	73	72	71	70	69	68	27
28	78	77	76	75	74	73	72	71	70	69	28
29	78	77	76	75	75	74	73	72	71	70	29
30	79	78	77	76	75	74	73	73	72	71	30
31	80	79	78	77	76	75	74	74	73	72	31

Relative Humidity for every Tenth of a Degree of t − t'. Temperature, Fahrenheit. Relative Humidity in Hundredths.

Wet Bulb Thermometer t'	t − t', or Difference of Dry and Wet Thermometers. t' below the freezing point. Bulb covered with a film of ice.										Wet Bulb Thermometer t'
	3°.0	3°.1	3°.2	3°.3	3°.4	3°.5	3°.6	3°.7	3°.8	3°.9	
0°	20	18	16	14	11	9	7	5	3		0°
1	23	21	19	17	15	12	10	8	6	4	1
2	26	24	22	20	18	16	14	12	10	8	2
3	29	27	25	23	21	19	17	15	13	11	3
4	31	29	27	25	24	22	20	18	16	14	4
5	34	32	30	28	26	24	23	21	19	17	5
6	36	34	32	31	29	27	25	23	22	20	6
7	38	37	35	33	31	30	28	26	24	23	7
8	41	39	37	35	34	32	30	29	27	25	8
9	43	41	39	38	36	34	33	31	30	28	9
10	45	43	41	40	38	37	35	33	32	30	10
11	46	45	43	42	40	39	37	36	34	33	11
12	48	47	45	44	42	41	39	38	36	35	12
13	50	48	47	45	44	43	41	40	38	37	13
14	51	50	49	47	46	44	43	42	40	39	14
15	53	52	50	49	48	46	45	44	42	41	15
16	54	53	52	50	49	48	47	45	44	43	16
17	56	55	53	52	51	49	48	47	46	45	17
18	57	56	55	53	52	51	50	49	47	46	18
19	59	57	56	55	54	53	51	50	49	48	19
20	60	59	57	56	55	54	53	52	51	49	20
21	61	60	59	58	56	55	54	53	52	51	21
22	62	61	60	59	58	57	55	54	53	52	22
23	63	62	61	60	59	58	57	56	55	54	23
24	64	63	62	61	60	59	58	57	56	55	24
25	65	64	63	62	61	60	59	58	57	56	25
26	66	65	64	63	62	61	60	59	58	57	26
27	67	66	65	64	63	62	61	60	59	59	27
28	68	67	66	65	64	63	62	61	61	60	28
29	69	68	67	66	65	64	63	63	62	61	29
30	70	69	68	67	66	65	65	64	63	62	30
31	71	70	69	68	67	67	66	65	64	63	31

Relative Humidity for every Tenth of a Degree of t—t'. Temperature, Fahrenheit. Relative Humidity in Hundredths.

Wet Bulb Thermometer t'	t—t', or Difference of Dry and Wet Thermometers. t below the freezing point. Bulb covered with a film of ice.										Wet Bulb Thermometer t'
	4°.0	4°.1	4°.2	4°.3	4°.4	4°.5	4°.6	4°.7	4°.8	4°.9	
0°											0°
1	2										1
2	6	4	2								2
3	9	7	5	3	1						3
4	12	10	9	7	5	3	1				4
5	15	14	12	10	8	7	5	3	2		5
6	18	17	15	13	12	10	8	7	5	3	6
7	21	19	18	16	15	13	11	10	8	7	7
8	24	22	21	19	18	16	14	13	11	10	8
9	26	25	23	22	20	19	17	16	14	13	9
10	29	27	26	24	23	22	20	19	17	16	10
11	31	30	28	27	26	24	23	21	20	19	11
12	34	32	31	29	28	27	25	24	23	21	12
13	36	34	33	32	30	29	28	26	25	24	13
14	38	36	35	34	33	31	30	29	27	26	14
15	40	38	37	36	35	33	32	31	30	29	15
16	42	40	39	38	37	35	34	33	32	31	16
17	43	42	41	40	39	37	36	35	34	33	17
18	45	44	43	42	40	39	38	37	36	35	18
19	47	46	44	43	42	41	40	39	38	37	19
20	48	47	46	45	44	43	42	41	40	39	20
21	50	49	48	47	46	45	44	43	42	41	21
22	51	50	49	48	47	46	45	44	43	42	22
23	53	52	51	50	49	48	47	46	45	44	23
24	54	53	52	51	50	49	48	47	46	45	24
25	55	54	53	52	51	51	50	49	48	47	25
26	56	56	55	54	53	52	51	50	49	48	26
27	58	57	56	55	54	53	52	51	51	50	27
28	59	58	57	56	55	54	54	53	52	51	28
29	60	59	58	58	57	56	55	54	53	53	29
30	61	60	60	59	58	57	56	56	55	54	30
31	63	62	61	60	59	59	58	57	56	55	31

Relative Humidity for every Tenth of a Degree of t—t'. Temperature, Fahrenheit. Relative Humidity in Hundredths

Wet Bulb Thermometer t'	t—t', or Difference of Dry and Wet Thermometers t' below the freezing point. Bulb covered with a film of ice.										Wet Bulb Thermometer t'
	5°.0	5°.1	5°.2	5°.3	5°.4	5°.5	5°.6	5°.7	5°.8	5°.9	
0°											0°
1											1
2											2
3											3
4											4
5											5
6	2										6
7	5	4	2	1							7
8	9	7	6	4	3	1					8
9	12	10	9	7	6	5	3	2	1		9
10	14	13	12	10	9	8	6	5	4	3	10
11	17	16	15	13	12	11	10	8	7	6	11
12	20	19	17	16	15	14	12	11	10	9	12
13	23	21	20	19	18	16	15	14	13	12	13
14	25	24	23	21	20	19	18	17	16	15	14
15	27	26	25	24	23	22	21	19	18	17	15
16	30	29	27	26	25	24	23	22	21	20	16
17	32	31	30	29	27	26	25	24	23	22	17
18	34	33	32	31	30	29	28	27	26	25	18
19	36	35	34	33	32	31	30	29	28	27	19
20	38	37	36	35	34	33	32	31	30	29	20
21	40	39	38	37	36	35	34	33	32	31	21
22	41	40	39	38	37	37	36	35	34	33	22
23	43	42	41	40	39	38	37	37	36	35	23
24	44	44	43	42	41	40	39	38	37	37	24
25	46	45	44	43	43	42	41	40	39	38	25
26	47	47	46	45	44	43	42	42	41	40	26
27	49	48	47	46	46	45	44	43	42	42	27
28	50	50	49	48	47	46	46	45	44	43	28
29	52	51	50	50	49	48	47	46	46	45	29
30	53	53	52	51	50	50	49	48	47	47	30
31	55	54	53	52	52	51	50	50	49	48	31

Relative Humidity for every Tenth of a Degree of t—t'. Temperature, Fahrenheit. Relative Humidity in Hundredths.

Wet Bulb Thermometer t	t—t', or Difference of Dry and Wet Thermometers. t' below the freezing point. Bulb covered with a film of ice.										Wet Bulb Thermometer t'
	6°.0	6°.1	6°.2	6°.3	6°.4	6°.5	6°.6	6°.7	6°.8	6°.9	
11°	5	3	2	1							11°
12	8	6	5	4	3	2	1				12
13	11	9	8	7	6	5	4	3	2	1	13
14	13	12	11	10	9	8	7	6	5	4	14
15	16	15	14	13	12	11	10	9	8	7	15
16	19	18	17	16	15	14	13	12	11	10	16
17	21	20	19	18	17	16	15	14	13	12	17
18	24	23	22	21	20	19	18	17	16	15	18
19	26	25	24	23	22	21	20	19	18	17	19
20	28	27	26	25	24	23	22	22	21	20	20
21	30	29	28	27	26	26	25	24	23	22	21
22	32	31	30	29	29	28	27	26	25	24	22
23	34	33	32	31	31	30	29	28	27	26	23
24	36	35	34	33	32	32	31	30	29	28	24
25	37	37	36	35	34	33	33	32	31	30	25
26	39	38	38	37	36	35	35	34	33	32	26
27	41	40	39	39	38	37	36	36	35	34	27
28	43	42	41	40	30	39	38	37	37	36	28
29	44	43	43	42	41	41	40	39	39	38	29
30	46	45	44	44	43	42	42	41	40	40	30
31	47	47	46	45	45	44	43	43	42	41	31
	7°.0	7°.1	7°.2	7°.3	7°.4	7°.5	7°.6	7°.7	7°.8	7°.9	
15°	6	5	4	3	2	1					15°
16	9	8	7	6	5	4	3	2	1		16
17	11	10	10	9	8	7	6	5	4	3	17
18	14	13	12	11	10	10	9	8	7	6	18
19	17	16	15	14	13	12	11	10	10	9	19
20	19	18	17	16	16	15	14	13	12	11	20
21	21	20	20	19	18	17	16	16	15	14	21
22	23	23	22	21	20	19	19	18	17	16	22
23	26	25	24	23	22	22	21	20	19	19	23
24	28	27	26	25	25	24	23	22	22	21	24
25	30	29	28	27	27	26	25	24	24	23	25
26	32	31	30	29	29	28	27	27	27	25	26
27	33	33	32	31	31	30	29	29	28	27	27
28	35	35	34	33	33	32	31	31	30	29	28
29	37	36	36	35	34	34	33	32	32	31	29
30	39	38	38	37	36	36	35	34	34	33	30
31	41	40	39	39	38	37	37	36	35	35	31

Relative Humidity for every Tenth of a Degree of t—t'. Temperature, Fahrenheit. Relative Humidity in Hundredths.

Wet bulb Thermometer t'	t—t', or Difference of Dry and Wet Thermometers. t' below the freezing point. Bulb covered with a film of ice.										Wet Bulb Thermometer t'
	8°.0	**8°.2**	**8°.4**	**8°.6**	**8°.8**	**9°.0**	**9°.2**	**9°.4**	**9°.6**	**9°.8**	
18°	5	4	2								18°
19	8	6	5	3	2						19
20	11	9	8	6	5	3	2				20
21	13	12	10	9	7	6	4	3	2		21
22	16	14	13	11	10	8	7	6	4	3	22
23	18	16	15	14	12	11	10	8	7	6	23
24	20	19	17	16	15	13	12	11	9	8	24
25	22	21	20	18	17	16	14	13	12	11	25
26	24	23	22	20	19	18	17	15	14	13	26
27	27	25	24	23	21	20	19	18	17	15	27
28	29	27	26	25	23	22	21	20	19	18	28
29	31	29	28	27	26	24	23	22	21	20	29
30	32	31	30	29	28	26	25	24	23	22	30
31	34	33	32	31	29	28	27	26	25	24	31
	10°.0	**10°.2**	**10°.4**	**10°.6**	**10°.8**	**11°.0**	**11°.2**	**11°.4**	**11°.6**	**11°.8**	
23	4	3	2	1							23
24	7	6	5	3	2	1					24
25	9	8	7	6	5	4	3	2			25
26	12	11	10	8	7	6	5	4	3	2	26
27	14	13	12	11	10	9	8	7	6	4	27
28	16	15	14	13	12	11	10	9	8	7	28
29	19	18	16	15	14	13	12	11	10	9	29
30	21	20	19	18	16	15	14	13	13	12	30
31	23	22	21	20	19	18	17	16	15	14	31
	12°.0	**12°.2**	**12°.4**	**12°.6**	**12°.8**	**13°.0**	**13°.2**	**13°.4**	**13°.6**	**13°.8**	
27	4	3	2	1							27
28	6	5	4	3	2	1					28
29	8	7	6	6	5	4	3	2	1		29
30	11	10	9	8	7	6	5	4	4	3	30
31	13	12	11	10	9	8	8	7	6	5	31
	14.°0	**14°.2**	**14°.4**	**14.°6**	**14.°8**						
30	2	1									30
31	4	3	3	2	1						31

TABLES OF CORRECTIONS

To be applied to the Readings of Barometers with Brass Scales extending from the Cistern to the top of the Mercurial Column for reducing the Observations to 32° Fahrenheit.

No. 1.—TEMPERATURES FROM 0° TO 28°, CORRECTIONS *ADDITIVE.*

Attached Thermometer.	Height of Barometer in Inches.									
	26·5	**27**	**27.5**	**28**	**28.5**	**29**	**29.5**	**30**	**30.5**	**31**
0°	.068	.069	.071	.072	.073	.074	.076	.077	.078	.080
1	.065	.067	.068	.069	.071	.072	.073	.074	.076	.077
2	.063	.064	.066	.067	.068	.069	.070	.072	.073	.074
3	.061	.062	.063	.064	.065	.067	.068	.069	.070	.071
4	.058	.059	.061	.062	.063	.064	.065	.066	.067	.068
5	.056	.057	.058	.059	.060	.061	.062	.063	.065	.066
6	.054	.055	.056	.057	.058	.059	.060	.061	.062	.063
7	.051	.052	.053	.054	.055	.056	.057	.058	.059	.060
8	.049	.050	.051	.052	.053	.054	.054	.055	056	.057
9	.046	.047	.048	.049	.050	.051	.052	.053	.054	.054
10	.044	.045	.046	.047	.047	.048	.049	.050	.051	.052
11	.042	.042	.043	.044	.045	.046	.046	.047	.048	.049
12	.039	.040	.041	.042	.042	.043	.044	.045	.045	.046
13	.037	.038	.038	.039	.040	.040	.041	.042	.043	.043
14	.035	.035	.036	.037	.037	.038	.038	.039	.040	.040
15	.032	.033	.033	.034	.035	.035	.036	.036	.037	.038
16	.030	.030	.031	.032	.032	.033	.033	.034	.034	.035
17	.027	.028	.028	.029	.030	.030	.031	.031	.032	.032
18	.025	.025	.026	.026	.027	.027	.028	.028	.029	.029
19	.023	.023	.024	.024	.024	.025	.025	.026	.026	.027
20	.020	.021	.021	.021	.022	.022	.023	.023	.023	.024
21	.018	.018	.019	.019	.019	.020	.020	.020	.021	.021
22	.016	.016	.016	.016	.017	.017	.017	.018	.018	.018
23	.013	.013	.014	.014	.014	.014	.015	.015	.015	.015
24	.011	.011	.011	.011	.012	.012	.012	.012	.012	.013
25	.008	.009	.009	.009	.009	.009	.009	.009	.010	.010
26	.006	.006	.006	.006	.006	.007	.007	.007	.007	.007
27	.004	.004	.004	.004	.004	.004	.004	.004	.004	.004
28	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001

No. 2.—TEMPERATURES FROM 29° TO 100°, CORRECTIONS *SUBTRACTIVE*

Attached Thermometer.	Height of Barometer in Inches.									
	26.5	**27**	**27.5**	**28**	**28.5**	**29**	**29.5**	**30**	**30.5**	**31**
29°	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
30	.004	.004	.004	.004	.004	.004	.004	.004	.004	.004
31	.006	.006	.006	.006	.006	.007	.007	.007	.007	.007
32	.008	.008	.009	.009	.009	.009	.009	.009	.010	.010
33	.011	.011	.011	.011	.012	.012	.012	.012	.012	.012
34	.013	.013	.014	.014	.014	.014	.015	.015	.015	.015
35	.015	.016	.016	.016	.017	.017	.017	.018	.018	.018
36	.018	.018	.019	.019	.019	.020	.020	.020	.021	.021
37	.020	.021	.021	.021	.022	.022	.022	.023	.023	.024
38	.023	.023	.023	.024	.024	.025	.025	.026	.026	.026
39	.025	.025	.026	.026	.027	.027	.028	.028	.029	.029
40	.027	.028	.028	.029	.029	.030	.030	.031	.031	.032
41	.030	.030	.031	.031	.032	.033	.033	.034	.034	.035
42	.032	.033	.033	.034	.034	.035	.036	.036	.037	.037
43	.034	.035	.036	.036	.037	.038	.038	.039	.040	.040
44	.037	.037	.038	.039	.040	.040	.041	.042	.042	.043
45	.039	.040	.041	.041	.042	.043	.044	.044	.045	.046
46	.042	.042	.043	.044	.045	.045	.046	.047	.048	.049
47	.044	.045	.046	.046	.047	.048	.049	.050	.051	.051
48	.046	.047	.048	.049	.050	.051	.052	.052	.053	.054
49	.049	.050	.050	.051	.052	.053	.054	.055	.056	.057
50	.051	.052	.053	.054	.055	.056	.057	.058	.059	.060
51	.053	.054	.055	.056	.057	.058	.059	.060	.061	.062
52	.056	.057	.058	.059	.060	.061	.062	.063	.064	.065
53	.058	.059	.060	.061	.063	.064	.065	.066	.067	.068
54	.060	.062	.063	.064	.065	.066	.067	.068	.070	.071
55	.063	.064	.065	.066	.068	.069	.070	.071	.072	.073
56	.065	.066	.068	.069	.070	.071	.073	.074	.075	.076
57	.068	.069	.070	.071	.073	.074	.075	.076	.078	.079
58	.070	.071	.073	.074	.075	.077	.078	.079	.081	.082
59	.072	.074	.075	.076	.078	.079	.080	.082	.083	.085
60	.075	.076	.077	.079	.080	.082	.083	.085	.086	.087
61	.077	.078	.080	.081	.083	.084	.086	.087	.089	.090
62	.079	.081	.082	.084	.085	.087	.088	.090	.091	.093
63	.082	.083	.085	.086	.088	.089	.091	.093	.094	.096
64	.084	.086	.087	.089	.090	.092	.094	.095	.097	.098
65	.086	.088	.090	.091	.093	.095	.096	.098	.100	.101
66	.089	.090	.092	.094	.096	.097	.099	.101	.102	.104
67	.091	.093	.095	.096	.098	.100	.102	.103	.105	.107
68	.094	.095	.097	.099	.101	.102	.104	.106	.108	.109
69	.096	.098	.100	.101	.103	.105	.107	.109	.110	.112

No. 2—(*Continued*).

Attached Thermometer.	Height of Barometer in Inches.									
	26.5	**27**	**27.5**	**28**	**28.5**	**29**	**29.5**	**30**	**30.5**	**31**
70°	.098	.100	.102	.104	.106	.108	.109	.111	.113	.115
71	.101	.102	.104	.106	.108	.110	.112	.114	.116	.118
72	.103	.105	.107	.109	.111	.113	.115	.117	.119	.120
73	.105	.107	.109	.111	.113	.115	.117	.119	.121	.123
74	.108	.110	.112	.114	.116	.118	.120	.122	.124	.126
75	.110	.112	.114	.116	.118	.120	.122	.125	.127	.129
76	.112	.114	.117	.119	.121	.123	.125	.127	.129	.131
77	.115	.117	.119	.121	.123	.126	.128	.130	.132	.134
78	.117	.119	.122	.124	.126	.128	.130	.133	.135	.137
79	.119	.122	.124	.126	.128	.131	.133	.135	.137	.140
80	.122	.124	.126	.129	.131	.133	.136	.138	.140	.143
81	.124	.126	.129	.131	.134	.136	.138	.141	.143	.145
82	.126	.129	.131	.134	.136	.138	.141	.143	.146	.148
83	.129	.131	.134	.136	.139	.141	.143	.146	.148	.151
84	.131	.134	.136	.139	.141	.144	.146	.149	.151	.154
85	.133	.136	.139	.141	.144	.146	.149	.151	.154	.156
86	.136	.138	.141	.144	.146	.149	.151	.154	.156	.159
87	.138	.141	.143	.146	.149	.151	.154	.157	.159	.162
88	.141	.143	.146	.149	.151	.154	.157	.159	.162	.165
89	.143	.146	.148	.151	.154	.156	.159	.162	.165	.167
90	.145	.148	.151	.153	.156	.159	.162	.164	.167	.170
91	.148	.150	.153	.156	.159	.162	.165	.167	.170	.173
92	.150	.153	.156	.158	.161	.164	.167	.170	.172	.175
93	.152	.155	.158	.161	.164	.167	.170	.172	.175	.178
94	.155	.157	.161	.163	.166	.169	.172	.175	.177	.180
95	.157	.160	.163	.166	.169	.172	.175	.178	.180	.183
96	.159	.162	.165	.168	.171	.174	.178	.181	.183	.186
97	.162	.165	.168	.171	.174	.177	.180	.183	.186	.189
98	.164	.167	.170	.173	.176	.179	.183	.186	.188	.191
99	.166	.169	.173	.176	.179	.182	.185	.188	.191	.194
100	.169	.172	.175	.178	.181	.184	.188	.191	.194	.197

STORAGE